

**IN THE ABSTRACT:**

Please add the following Abstract:

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A method for universal calculation on the points of an elliptic curve defined by a quartic equation uses identical programmed calculating devices for operating an addition of points, a doubling of points and an addition of a neutral point. The calculating device is a central unit associated with a memory. The invention also concerns a cryptographic method using such a universal method. The invention further concerns a component for implementing the universal calculation method and/or the cryptographic method. For example, the invention is applicable to smart cards.